

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) ~~Process~~ A process for digital message transmission in ~~the a~~ packet mode, ~~in which process the~~ where transmitted signals are sampled at ~~the an~~ end of a transmission link by means of a device for timing recovery and are then further processed, and ~~in which process~~ where the signals are fed to a discriminator simultaneously via two separate paths, a delay path and a path fitted with a filter,

wherein:

a wideband bandpass filter with a relative bandwidth of 0.2 % to 0.4 % of ~~the a~~ bit timing of the transmitted signals is used as ~~a the~~ filter, ~~whose a~~ transient recovery time of the wideband bandpass filter is less than ~~the a~~ time by which the signals are delayed on the delay path, ~~which in turn~~ and the time by which the signals are delayed on the delay path is less than ~~the a~~ decay time of the wideband bandpass filter, and

an amplifier limiting ~~the an~~ amplitude of ~~the an~~ output voltage of the ~~same~~ limiting amplifier via which the ~~timing~~ signals are brought to ~~the a~~ required constant level, is connected downstream of the bandpass filter.

2. (currently amended) ~~Process~~ The process according to Claim 1, wherein ~~a~~ the wideband bandpass filter ~~with~~ has a relative bandwidth of 0.3 % of the bit timing of the transmitted signals ~~is used~~.

3. (currently amended) ~~Process~~ A process according to Claim 1, wherein
a circuit with two parallel paths in which each is an identical low-pass filter arranged between two analogue multipliers, is used as the bandpass filter, and
~~the~~ a local timing is applied to the multipliers of ~~the~~ one of the two parallel path~~s~~path, while the local timing shifted by 90° is applied to the multipliers of the other ~~path~~ one of the two parallel paths.

4. (currently amended) ~~Process~~ The process according to Claim 3, wherein a sample-and-hold element is inserted in each ~~ease~~ of the two parallel paths in ~~the~~ a direction of transmission prior to the low-pass filters.

5. (currently amended) ~~Process~~ The process according to Claim 1, wherein ~~the~~ coding of the signals prior to the bandpass filter is converted from an NRZ code to an RZ code.

6. (currently amended) ~~Receiver~~ A receiver for an optical telecommunications system for the transmission of optical data packets, wherein

a wideband bandpass filter with a relative bandwidth of 0.2 % to 0.4 % of ~~the~~ a bit timing of the transmitted signals is used as ~~a~~ the filter, ~~whose~~ a transient recovery time of the wideband bandpass filter is less than ~~the~~ a time by which the signals are delayed on the delay path, ~~which in turn~~ and the time by which the signals are delayed on the delay path is less than ~~the~~ a decay time of the wideband bandpass filter, and

wherein an amplifier limiting ~~the~~ an amplitude of ~~the~~ an output voltage of the ~~same~~ limiting amplifier via which the ~~timing~~ signals are brought to ~~the~~ a required constant level, is connected to the bandpass filter.